

AVHA Series High voltage

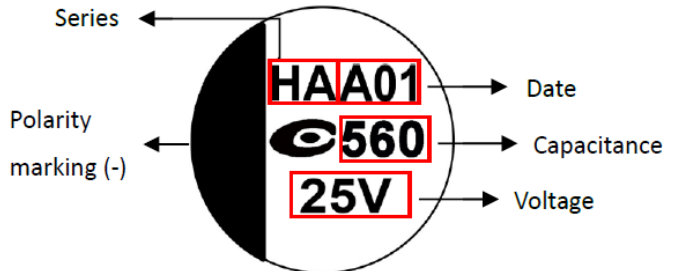
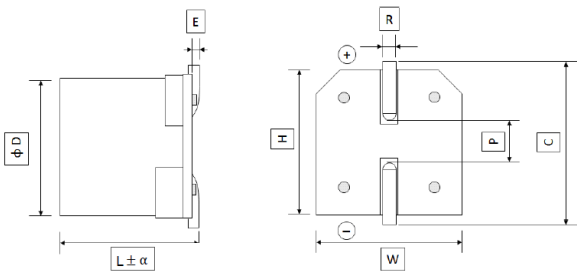
- Standard SMD type
- Rated Voltage: 25~100Vdc
- Endurance 5000hrs at 105°C
- Suitable for DC-DC converters, voltage regulators and decoupling applications
- RoHS Compliant



Specification

Category Temperature Range	-55~+105°C	Rated Voltage Range	25 to 100Vdc
Rated Capacitance Range	22 to 470 (μF)	Capacitance Tolerance	±20% (M)
Surge Voltage	Rated voltage X 1.15 (at 105°C)	Dissipation Factor	0.12 max. (at 20°C 120Hz)
Leakage Current	Shall not exceed values shown in standard ratings. (at 20°C after 2 mins.)		
Endurance	105°C, 5000hrs, rated voltage applied		
	Appearance	No significant damage	
	Capacitance Change	≤ ±20% of the initial value	
	DF(tanδ)	≤ 150% of the initial specified value	
	ESR	≤ 150% of the initial specified value	
	Leakage current	≤ The initial specified value	
Damp Heat (Steady State)	60°C, 90 to 95% RH, 1000hrs, No voltage applied		
	Appearance	No significant damage	
	Capacitance Change	≤ ±20% of the initial value	
	DF(tanδ)	≤ 150% of the initial specified value	
	ESR	≤ 150% of the initial specified value	
	Leakage current	≤ The initial specified value	
Surge Voltage	1,000 cycles and each one includes charge with surge voltage specified at 105°C for 0.5min through a protective resistor (R=1kΩ) and discharge for 5.5min.		
	Appearance	No significant damage	
	Capacitance Change	≤ ±20% of the initial value	
	DF(tanδ)	≤ 150% of the initial specified value	
	ESR	≤ 150% of the initial specified value	
	Leakage current	≤ The initial specified value	

Dimensions and Marking



Size code	φD±0.5max (mm)	L (mm)	α (mm)	E (mm)	W±0.2 (mm)	H±0.2 (mm)	C±0.2 (mm)	R (mm)	P±0.3 (mm)
0606	6.3	5.8	±0.2	0.00~0.20	6.6	6.6	7.3	0.5~0.8	2.1
0608	6.3	7.5	±0.5	0.00~0.20	6.6	6.6	7.3	0.5~0.8	2.1
0807	8.0	6.8	±0.2	0.00~0.20	8.3	8.3	9.0	0.8~1.1	2.9
0810	8.0	9.7	±0.3	0.00~0.20	8.3	8.3	9.0	0.8~1.1	2.9
0812	8.0	12.0	±0.5	0.00~0.20	8.3	8.3	9.0	0.8~1.1	3.2
1012	10.0	12.3	±0.2	0.00~0.20	10.3	10.3	11.0	0.8~1.1	4.6

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Standard Ratings

WV/Vdc (SV)	Cap (μF)	Size Code	Leakage Current (μA)	ESR (mΩmax/20°C, 100k to300kHz)	Rated Ripple Current (mArms/ 105°C/100kHz)	Part No.
25 (28.8)	47	0606	235	30	2,500	250AVHA470M0606
	56	0606	280	35	2,500	250AVHA560M0606
	100	0807	500	24	3,200	250AVHA101M0807
	180	0810	900	18	4,100	250AVHA181M0810
	220	0810	1,100	18	4,100	250AVHA221M0810
	330	0812	1,650	18	4,100	250AVHA331M0812
	470	0812	2,350	18	4,650	250AVHA471M0812
35 (40.3)	47	0606	329	35	2,100	350AVHA470M0606
	68	0608	476	35	2,000	350AVHA680M0608
	100	0810	700	35	2,800	350AVHA101M0810
	150	0810	1,050	25	3,000	350AVHA151M0810
	220	0812	1,540	25	2,890	350AVHA221M0812
	330	1012	2,310	24	3,400	350AVHA331M1012
50 (57.5)	47	0810	470	25	2,700	500AVHA470M0810
	68	0810	680	25	2,700	500AVHA680M0810
	120	1012	1,200	19	2,950	500AVHA121M1012
	220	1012	2,200	17	2,950	500AVHA221M1012
63 (72.5)	47	0810	592	25	2,700	630AVHA470M0810
	56	1012	705	25	2,950	630AVHA560M1012
	68	1012	857	25	3,280	630AVHA680M1012
80 (92)	22	0810	352	40	1,700	800AVHA220M0810
	47	1012	752	33	2,100	800AVHA470M1012
	68	1012	1,088	25	2,950	800AVHA680M1012
100 (115)	22	1012	440	45	1,600	101AVHA220M1012
	47	1012	940	35	2,100	101AVHA470M1012